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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/889,546	07/18/2001	Mitsugu Yoshihiro	450108-02834	5318

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EXAMINER

KAPADIA, VARSHA A

ART UNIT PAPER NUMBER

2651

DATE MAILED: 01/14/2004

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/889,546

Applicant(s)

YOSHIHIRO, MITSUGU

Examiner

Varsha A Kapadia

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 December 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

This office action is responsive to the amendment filed on December 1, 2003.

Rejection Under 35 U.S.C. 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1-3 and 5- 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Arimura et al in view of Yao et al (5, 802, 243) and further in view of Ikushima et al (5,311,375).

With regards to claims 1, 5-6 and 8, Arimura et al discloses a magnetic tape recording/reproducing device comprising: driving means...a buffer memory... an interface... and driving control means...; and memory write/read means (see fig.1 , abstract and col.4 lines 1-24).

Arimura et al fails to further specify that the device is operable to perform a variable speed reproduction in which all of the video data recorded on the tape is reproduced by changing the tape running speed without changing the drum rotation speed.

Yao et al., however discloses a device wherein video data are recorded by the plurality of heads is reproduced by changing the tape running speed without changing the drum rotation speed (see fig.1 disclosure thereof and col.2 lines 10-15).

It would have been obvious to one of ordinary skilled in the art at the time the invention was made to modify the recording/reproducing apparatus disclosed by Arimura et al with the above teachings from Yao et al in order to provide a recording/reproducing device having a

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capability to keep the drum speed unchanged while changing the tape running speed in order to provide a system with inexpensive and readily available tape transport and servo mechanisms, as taught by Yao et al.

Arimura et al in view of Yao et al. fails to further specify that the magnetic heads are arranged in pairs such that the heads in each pair are spaced apart by about one track width, and the heads in each pair have about the same azimuth angle.

However, such arrangement is disclosed by Ikushima et al. (see for example, abstract, figs. 5-6 and disclosure thereof), wherein Ikushima et al further specifies that the video data recorded on the video tape is in the form of multiple tracks.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the recording/reproducing apparatus disclosed by Arimura et al in view of Yao et al. with the above teachings from Ikushima et al in order to provide a recording/reproducing device having specific head arrangement that will eliminate the effect of the cross talk between the neighboring tracks and which will provide a proper image even when a high speed reproduction mode is selected, as taught by Ikushima et al. (see col. 3 lines 40-47).

With regards to claims 2-3 and 7, Arimura et al further discloses that the driving control means is controlled in such a manner that, when the data quantity stored in the buffer memory is larger than the predetermined value, the video tape running speed is lowered and vice versa. (see figs. 4A and 4B and col.5 line 50 to col.6 line 64; wherein Arimura et al also discloses the capability of temporarily suspending the running of the tape and re-starting the motion of the tape again when the data in the buffer becomes higher than the set value).

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2. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Arimura et al in view of Yao et al and Ikushima et al and in further in view of Beavers et al (6,307,701).

With regards to claim 4, Arimura et al and Yao et al discloses the invention as described above in this office action. Arimura et al and Yao et al fails to further clarify that driving control means controls the driving means so that the video tape is returned by a fixed distance in the opposite direction to be ready for restarting the next recording after the running of the video tape temporarily brought to a stop.

Beavers et al however, disclose such a capability (see col.2 lines10-15).

It would have been obvious to one of ordinary skilled in the art at the time the invention was made to modify the recording/reproducing apparatus disclosed by Arimura et al in view of Yao et al and Ikushima et al with the above teachings from Beavers et al in order to provide a capability to return the video tape by a fixed distance, in an opposite direction to be ready to restart after it has brought to temporary stop to allow enough space to accelerate to the forward operating speed, as taught by Beavers at al.

Prior Art Cited

Reference to Kita et al (6,304,410) cited as of interest.

Response to Remarks

Applicant's arguments with respect to claims 1-8 have been considered but are moot in view of the new ground(s) of rejection.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Varsha A Kapadia whose telephone number is (703) 305-4198.

The examiner can normally be reached on Mon-Wed from 6:30 AM to 2:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David R. Hudspeth can be reached on (703) 308-4825. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 746-4959 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.



VK



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